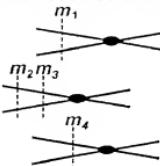




S1

obtain
DNA
sampleidentify microsatellite markers
on chromosomes of interestdesign PCR primers
with fluorescent labels
for each marker

P, T-●

PCR primer pair form₁

P, T-●

PCR primer pair form₂

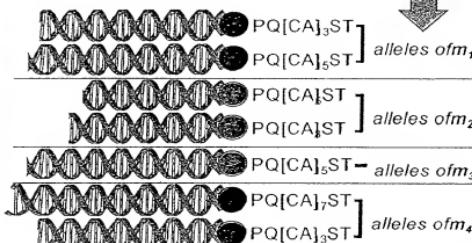
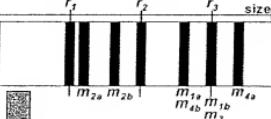
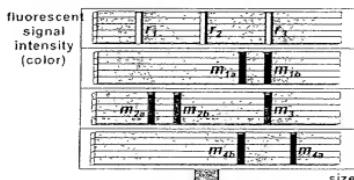
P, T-●

PCR primer pair form₃

P, T-●

PCR primer pair form₄

S4

multiplexed PCR
to amplify and label alleles
for analysisalleles of m_1 alleles of m_2 alleles of m_3 alleles of m_4 gel electrophoresis
to separate alleles
by sizelaser-induced fluorescence
to separate alleles by coloranalysis of patterns
to determine genotype

S6

S7

Figure 1

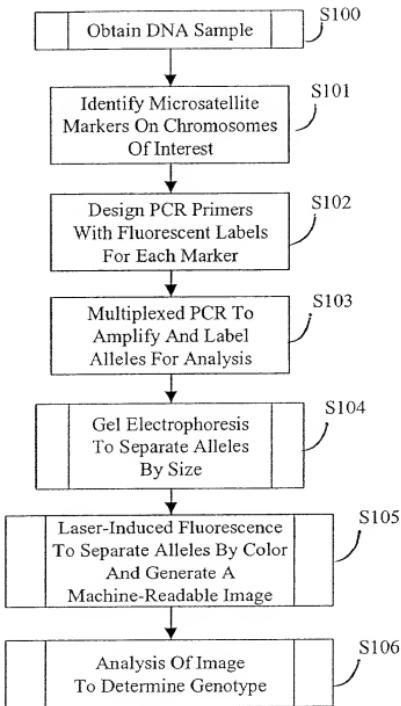


Figure 2

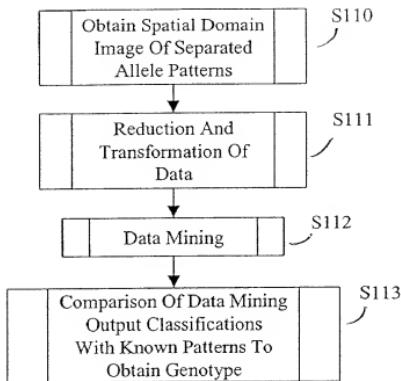


Figure 3A

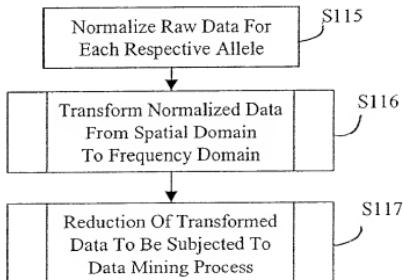


Figure 3B

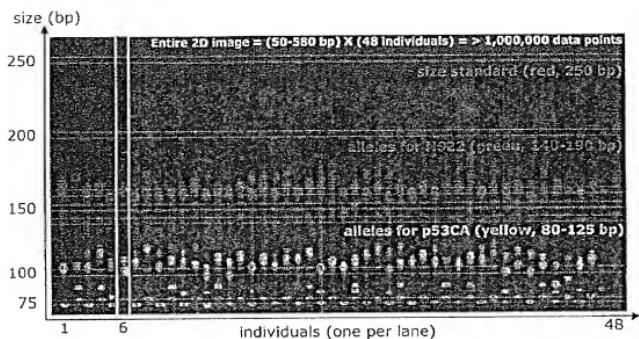


Figure 4A



Figure 4B

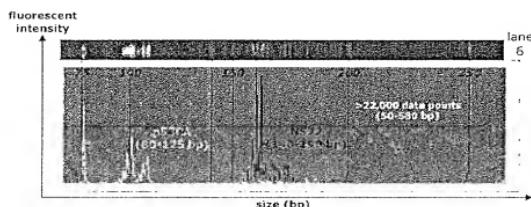


Figure 5A

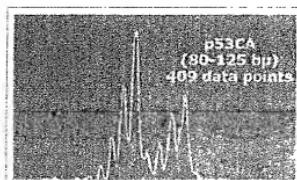


Figure 5B

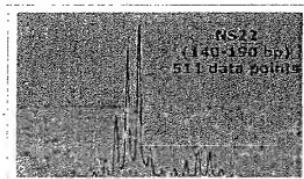


Figure 5C

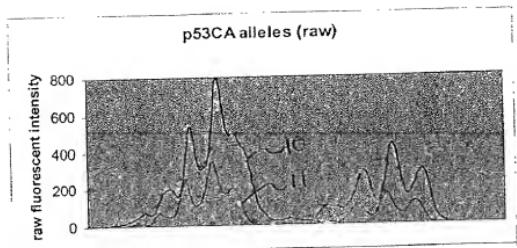


Figure 6A

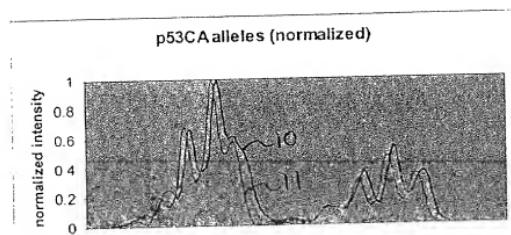


Figure 6B

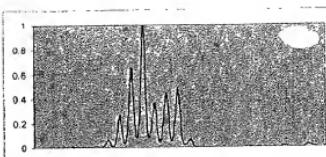


Figure 7A

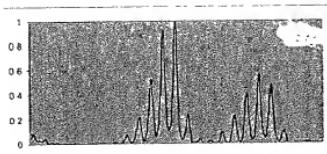


Figure 7B

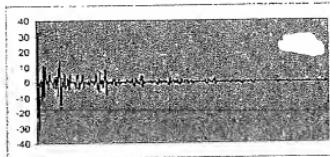


Figure 7C

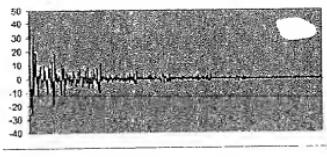


Figure 7D

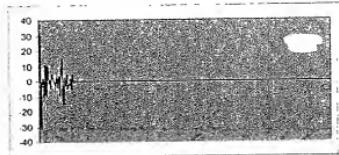


Figure 7E

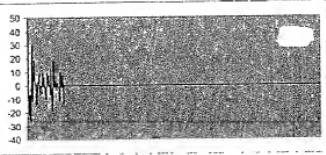


Figure 7F

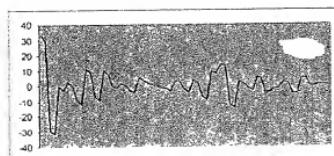


Figure 7G

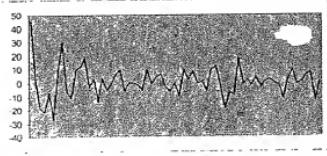


Figure 7H

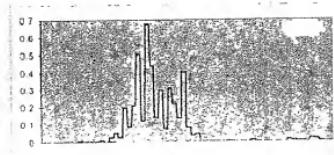


Figure 7I

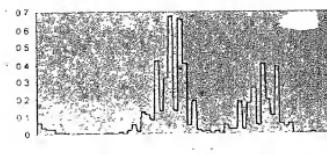


Figure 7J

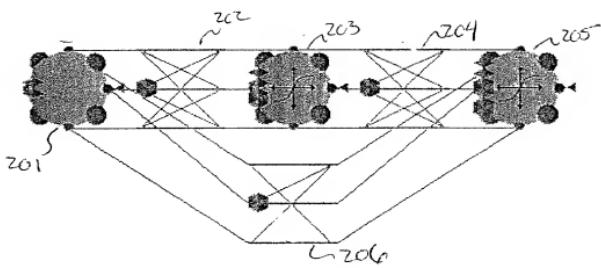
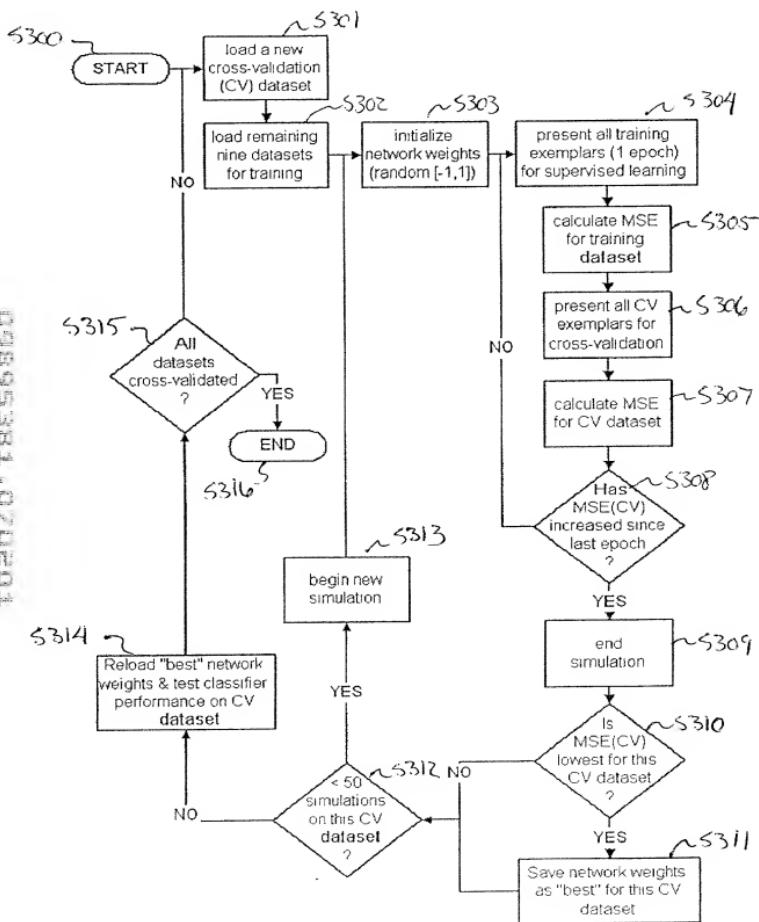


Figure 8

TO2070556581 - 07/07/2004

**Figure 9**